



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

B. Bunting
SAM
STERLING
DAVID
BEN

LYNDO TIPPETT
SECRETARY

MICHAEL F. EASLEY
GOVERNOR

MEMO TO: Roadway Design Project Engineers
Roadway Squad Leaders

FROM: John Alford, PE *John Alford*
State Roadway Design Engineer

DATE: August 7, 2001

SUBJECT: Plan Preparation and CADD

As a direct result of the recent Roadway Design CADD Users Group meeting certain issues have arisen. This is to clarify and set policy, where needed, regarding those issues.

Earthwork

There is a change in how undercut and specifically backfill of undercut will be addressed. Where we have designated areas of undercut, backfill of this undercut shall be reflected in the embankment volumes shown in the Earthwork Summary sheets. The Excel spreadsheet template will be updated to show a note indicating that embankment volumes contain backfill for undercut. This does not apply to undercut that is a contingency item. Garry Lee agrees with this change.

Also, a method of running Geopak earthwork has been developed where all earthwork quantities including rock and undercut are correctly calculated. The Excel spreadsheet can then import these output files to generate the Earthwork Summary Sheet. This process has been reviewed and is highly recommended. Instructions will be placed on the RDU webpage.

CADD Files

It has come to my attention that DDB files other than the DDB file generated by CADD Support are being used. This creates unnecessary additional effort, plotting inconsistencies and other problems. The CADD Support file is the only DDB file that correctly calculates automated quantities, is properly integrated with TRN\$PORT and will properly plot. In the interest of uniformity and plan consistency, the CADD Support created DDB file shall be used by all Roadway Design.

It has also been brought to my attention that we are not using the proper file placement regarding GPK files. All GPK files shall be placed and kept in the GPK Folder per CADD Support guidelines. This is to ensure a standard and dependable file structure throughout the unit.

Thank you for your help as we work toward plan preparation and CADD consistency and uniformity. If you have any questions about this, feel free to contact me, Jimmy Norris, or Ross McDowell.

DLS

cc: Charlie Casey, PE

Garry Lee, PE

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN UNIT
1582 MAIL SERVICE CENTER
RALEIGH NC 27699-1582

TELEPHONE: 919-250-4016
FAX: 919-250-4036

WEBSITE: WWW.DOT.STATE.NC.US

LOCATION:
CENTURY CENTER COMPLEX
BUILDING A
1000 BUCHANAN DRIVE
RALEIGH NC